

**Amendments to the Claims:**

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) Screw actuator, comprising a housing-(17), a motor-(7), an actuating member-(10) and a screw mechanism-(5) which provides a linear movement of the actuating member with respect to the housing in response to a rotational movement of the motor-(7), which screw mechanism-(5) comprises a screw-(11), a nut-(14) engaging each other by rolling elements-(13), one of said screw-(11) and nut-(14) being rotatably supported with respect to the housing-(17), and a reduction gear means-(6), wherein the nut-(14) is axially fixed with respect to the housing-(17), and the screw-(11) is rotatably supported with respect to the housing by means of the rolling elements-(13) and wherein the screw engages the actuating member through a bearing capable of carrying at least one of an axial load and a radial load.

2. (Currently Amended) Actuator according to claim 1, wherein the screw-(11) is rotationally driven by the reduction gear means-(6) through a coupling means-(19-22) which allows axial displacements.

3. (Currently Amended) Actuator according to claim 2, wherein the coupling means comprises a shaft-(22) accommodated within a bore-(37) in the screw-(11), the surface of the shaft-(22) and bore having axial grooves-(19, 21) which engage each other through balls-(20).

4. (Currently Amended) Actuator according to claim 1, wherein the reduction gear means-(6) is contained in a reduction gear module and the screw mechanism-(5) is contained in a screw mechanism module.

5. (Currently Amended) Actuator according to claim 4, wherein the reduction gear means-(6) comprises at least two gear reduction steps.

6. (Currently Amended) Actuator according to claim 4, wherein the reduction gear means comprises at least one of a planetary gear reduction step ~~(25-28)~~ and a right angle gear reduction step (28-31).

7.-8. (Canceled)

9. (Currently Amended) Actuator according to claim 1, wherein the actuating member is a piston ~~(10)~~, which is slidably held within a cylinder space ~~(38, 59)~~ of the housing ~~(17)~~.

10. (Currently Amended) Actuator according to claim 1, wherein the piston (10) is held non-rotatably by means of a groove and pin assembly, or by means of a ball/groove assembly.

11. (Canceled)

12. (Currently Amended) Actuator according to claim 9, wherein the cylinder space ~~(59)~~ is formed in the nut ~~(14)~~.

13. (Original) Actuator according to claim 4, wherein the modules are axially aligned.

14.-15. (Canceled)

16. (Currently Amended) Actuator according to claim 4, wherein the reduction gear means ~~(6)~~ comprises at least part of a planetary gear system having a stationary outer ring gear ~~(27)~~ with inwardly pointing gear teeth.

17. (Currently Amended) Actuator according to claim 16, wherein the reduction gear means comprises satellite gear wheels ~~(26)~~ which mesh with the ring gear ~~(27)~~ and which are accommodated on a carrier ~~(25)~~ connected to the shaft ~~(22)~~ engaging the screw mechanism ~~(15)~~.

18. (Currently Amended) Actuator according to claim 17, wherein the sun gear wheel-(28) of the reduction gear means-(6) is connected to a bevel gear-(29) which mates with a motor gear, by an angled or right angled gear transmission-(32).

19. (Currently Amended) Actuator according to claim 18, wherein the sun gear wheel-(28) and the bevel gear-(29) are carried out as a unitary gear wheel-(30) which is supported with respect to the nut-(14) of the screw mechanism-(5) by means of rolling element bearing-(31).

20. (Currently Amended) Actuator according to claim 18, wherein the pitch diameter of the bevel gear-(29) is larger than the pitch diameter of the sun gear wheel-(28).

21. (Currently Amended) Actuator according to claim 1, wherein a sensor-(33) is provided for detecting rotational and/or translational movements of the screw mechanism-(5).

22.-23. (Canceled)

24. (Currently Amended) Actuator according to claim 1, wherein balls or rollers-(13) of the screw mechanism-(5) are coated so as to maintain the proper function of the screw-(11) under dry-running conditions with a diamond-like carbon coating.

25. (Currently Amended) Actuator according to claim 1, wherein the motor-(7) is an electric motor.

26.-28. (Canceled)

29. (Previously Amended) Actuator according to claim 1, wherein the screw mechanism comprises rolling balls, and the grooves in the screw and nut are arranged for adapted contact angles in view of improved axial load bearing capacity.

30. (Currently Amended) Brake caliper for an electrically actuatable disc brake, said caliper comprising an actuator according to claim 1, and a claw piece-(1) carrying two opposite brake pads-(2, 3) said actuator comprising a screw mechanism-(5) the screw-(11) of

which is rotatably supported with respect to the housing-(17) by means of the balls-(23) of the screw mechanism-(5), a reduction gear means-(6) and a motor-(7).

31-34. (Canceled)